

PROJECTION TYPE CATHODE RAY TUBE

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Abstract of JP2011694

PURPOSE: To provide a projection type cathode ray tube excelling in hue, saturation luminance, life, etc., and having a short afterglow by mixing a green light emitting phosphor $\text{InBO}_3:\text{Tb}$ with other specified green light emitting phosphors and forming a fluorescent screen from the mixed phosphors. **CONSTITUTION:** A green light emitting phosphor $\text{InBO}_3:\text{Tb}$ is mixed with other green light emitting phosphors until the time required for the afterglow of the mixture to decrease to 1/10 is decreased to 10ms when measured by the rester spot method. Examples of said other phosphors include $\text{Y}_3\text{Al}_5\text{-mGa}_2\text{O}_12:\text{Tb}$, $\text{Y}_2\text{SiO}_5:\text{Tb}$ and mixtures thereof, and it is desirable that the total amount of the other phosphors is at least 60wt.%. A green light emitting projection type cathode ray tube is produced by forming its fluorescent screen from the mixed phosphors. In this way, this tube can be freed from a drawback of the long afterglow of $\text{InBO}_3:\text{Tb}$.

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